Mac 24/12-20



Product code: 81200100



The Mac models can regulate the voltage both up and down to ensure an optimal voltage stabilisation, even when the battery voltage fluctuates due to heavy loads. The galvanic isolation between input and output prevents disruptions to, for instance, communication equipment.

- · Professional use.
- · Converter and 3-step battery charger.
- · Parallel switchable.
- · Adjustable and programmable output voltage.
- · Voltage stabilisation for a longer lifespan of halogen lights, etc.
- · Dimmer function for Mac & Magic models.
- · Mac Plus: optimal charging in Euro 5/6 applications.

The non-isolated Mac models have an electrical connection between the input and output. Features:

- · Low costs.
- · Efficient: low heat generation.
- · Compact.
- · Suited to applications with negative earthing.

For the toughest tasks

The Mac DC-DC converters are designed for the toughest conditions for professional, semi-professional and recreational purposes. Even under the most extreme conditions, these DC-DC converters operate faultlessly, giving you round-the-clock output when necessary. The sustainability and technologies that underpin the Mastervolt concept have long been proven in practice. With an MTBF of 280,000 hours at full capacity and 24/7 use, the DC-DC converters are ideal for the toughest tasks and any situation that requires a reliable power supply.

Parallel operation

Lots of consumers on board?

The parallel configuration of several units will provide you over 100 amperes. Advanced high-frequency technology with modern microprocessors ensures minimum power loss when switching from 24 to 12 V and vice versa.

Programmable via laptop or PC

Remote control the Mac via your laptop or PC, or configure your personal preferences. The device has a communication port and easy installation with a PC-Link and MasterAdjust software.

Energy-saving dimmer function

Many standard light dimmers convert part of the energy to heat and also lose unnecessary energy. The Mastervolt Mac converters regulate the power supply efficiently and without excessive heat build-up, for optimal safety (multiple converters can be used for multiple lamps).



Specifications

General specifications

Output voltage 10-15 V
Nominal output voltage (adjustable with MasterAdjust) 13.6 V
Output voltage dimmer (adjustable with MasterAdjust) 4-13 V

Output voltage stabilisation 2 % at extremes of temperatures, load and input

Output voltage ripple (peak peak) max. 1 % Max. output power 300 W Nominal output power 270 W 20 A Max. output current Output charge current (3-step mode) 16 A 24 V Nominal input voltage Input voltage range 20-32 V Input voltage range (3-step charge mode) 24-32 V Lower input set point (adjustable with MasterAdjust) 20 V

Delay lower input set point (adjustable with MasterAdjust) 30 sec.

Galvanic isolation no

Voltage limited yes

Efficiency > 90 % (at nom. input voltage, full load); peak 92 %

Parallel configuration ye

Dimmer function yes, by external momentary switch via fast-on connection, to be

activated by DIP switch setting

Alarm contact

Dimensions, hxwxd 190 x 130 x 61 mm

 $7.5 \times 5.1 \times 2.4 \text{ inch}$ Weight 1 kg

2.2 lb Compliance CE

Technical specifications

3-Step charge option yes (DIP switch settings)

DC consumption < 30 mA

Connections screw terminals (max. wire size 16 mm² / AWG5)

Temperature range (ambient temp.)

-25 °C to 60 °C afgement vermoren > 40 °C

Temperature range (ambient temp.) -25 °C to 60 °C, afnemend vermogen > 40 °C

-13 to 140 °F
Cooling natural cooling

Protection degree IP21

Protections against over load & over temperature

MasterBus compatible yes, in combination with a MasterBus Serial Interface

